

Claims

1. A device for ascertaining and displaying at least one physical, chemical, or biological property of a test liquid or for detecting substances and/or organisms contained therein by reaction with at least one indicator or reactant, in which the indicator or indicators (2.0) are at least partly accessible in or via at least one reaction chamber (1.5) which has at least one inlet opening for the test liquid, characterized in that the device is embodied as at least one deep-drawn cup-shaped element (1.1), which is closed with a covering film (1.2).

2. The device of claim 1, characterized in that the shape and/or material properties of the reaction chamber or chambers are selected such that after a deformation from an external pressure to reduce the original volume of the reaction chamber, when the deformation action is withdrawn, a restoring effect is generated such that the original shape is restored, generating a suction action, to the extent that the original volume is at least essentially restored.

3. The device of claim 2, characterized in that the restoring effect is attained by the choice of the shape and properties of the plastic material of the deep-drawn cup-shaped element (1.1).

4. The device of claim 1, characterized in that the indicator (2.0) is a test strip, for instance a litmus test strip, which is stored in an indicator chamber (1.6).

5. The device of claim 4, characterized in that at least one indicator (2.0) is disposed on the side of the reaction chamber (1.5) opposite the inlet opening (1.9).

6. The device of claim 4, characterized in that at least one indicator (6.4) is disposed between the inlet opening (1.9) and the reaction chamber (6.3).

7. The device of claim 1, characterized in that the indicator (11.0) is at least one liquid which is kept in readiness in at least one indicator chamber (10.2) that can be made to communicate with the reaction chamber (10.5).

8. The device of claim 1, characterized in that the indicator (15.0) is at least one solid, for instance in the form of a tablet, which is kept in readiness in at least one indicator chamber (14.2) to which the test liquid has access or from which the test liquid can reach the reaction chamber (14.1).

9. The device of claim 1, characterized in that the peripheral region in which the deep-drawn cup-shaped element (1.1) and the covering film (1.2) are joined together, in particular by sealing, has recesses and/or indentations (40.1, 40.2), which allow the device to be set upright or hung up.

10. The device of claim 1, characterized in that in the immediate vicinity of the indicator or of the reaction chamber, at least one information-carrying medium (1.8) is provided, which shows the possible states of the indicator and in particular its colors after the reaction with the test liquid.

11. The device of claims 4 and 10, characterized in that the information-carrying medium is a comparison test strip, which is disposed in a further deep-drawn cup-shaped element (1.6) that borders on the reaction chamber (1.5).

12. The device of claim 1, characterized in that the inlet opening (1.9) is formed by a breakaway tip (1.3), which is joined to the reaction chamber (1.5) and across which a transversely extending weakening of material, for instance in the form of a crease (1.4), extends.

13. The device of claim 1, characterized in that the inlet opening is formed by a stamped-out feature (60.3, 61.3), which is covered with an adhesive film (60.4, 61.2).

14. The device of claims 1 and 12, characterized in that two reaction chambers (12.5, 12.6) and two indicator chambers (12.3; 12.4) are provided, which are disposed opposite one another such that the two reaction chambers communicate via a common conduit (12.7), across which the weakening of material extends to form two adjacent inlet openings (12.8.1; 12.8.2) for the two reaction chambers.

15. The device of claim 7 or 8, characterized in that the reaction chamber (10.5) and the indicator chamber (10.2) can be joined together via a peelable zone (10.4) of the deep-drawn cup-shaped element and covering film.